



# Developing the Builders of Tomorrow Through Creativity





# LEGO® Education



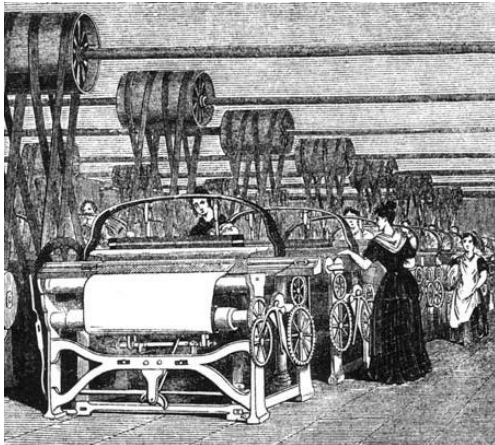
- 30 years in education
  - Supplying educational solutions for children aged 1 to 16 years
  - Manipulatives, curriculum & CPD
- Present in 60 countries
- Global network of partners

# Times are changing



# Society is changing

## Industrial Age



Local

Production

Enlightenment

## Information Society



## Creative Society



Global

Innovation

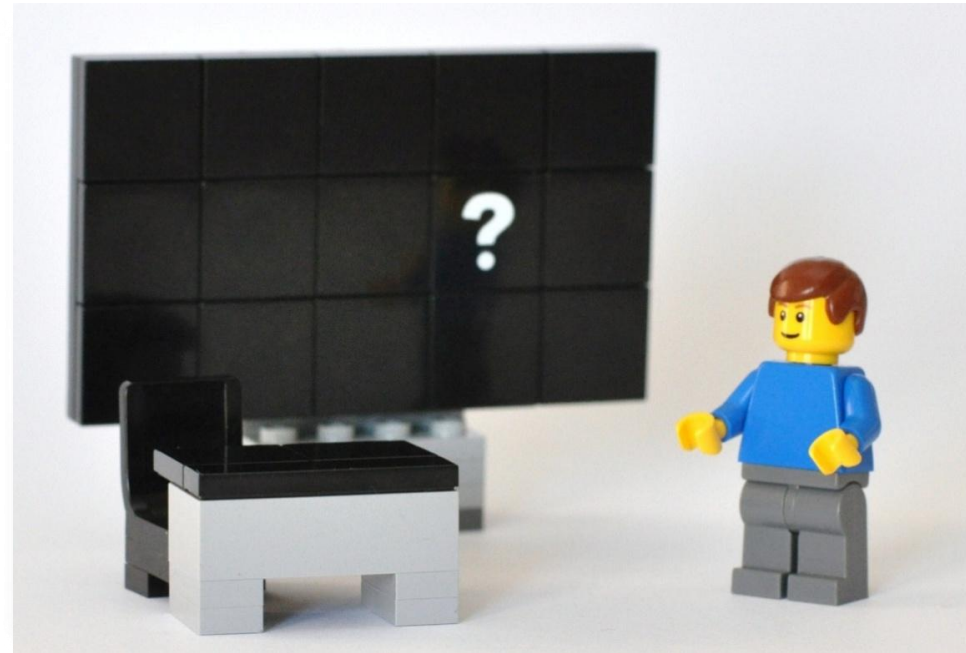
Creative, abstract thinking





# The global education challenge

- Increased political Focus on education all over the world
- The school systems 'challenge
- The teachers challenge
- Student in the 21<sup>st</sup> Century
- Anxious parents





# Skills Needed in the 21<sup>st</sup> Century



PARTNERSHIP FOR  
21ST CENTURY SKILLS

- Creativity and Innovation skills
- Critical thinking and problem solving skills
- Communication skills
- Collaboration skills









# What future career are we really preparing them for?



**we are all creative...**





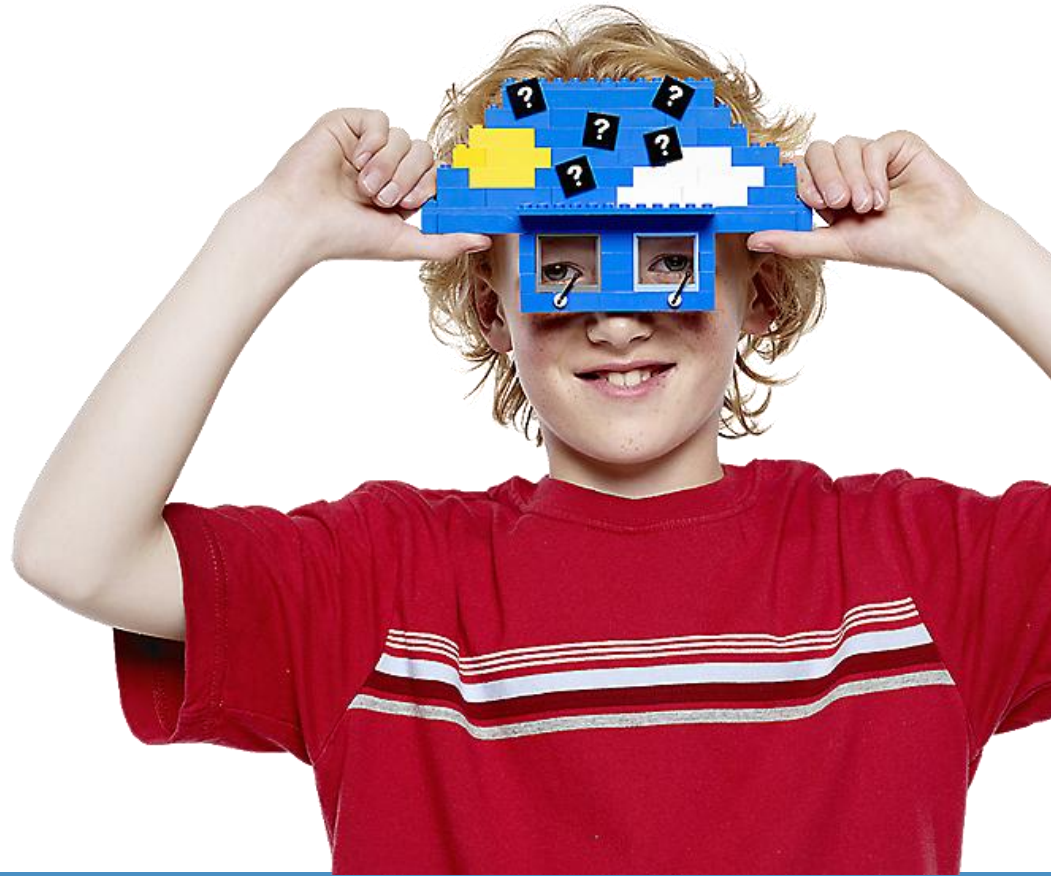


# Systematic Creativity Is:

Using logic and reasoning...

Along with creativity and imagination...

To generate ideas and artifacts that are new, surprising, and valuable.



# For the arts



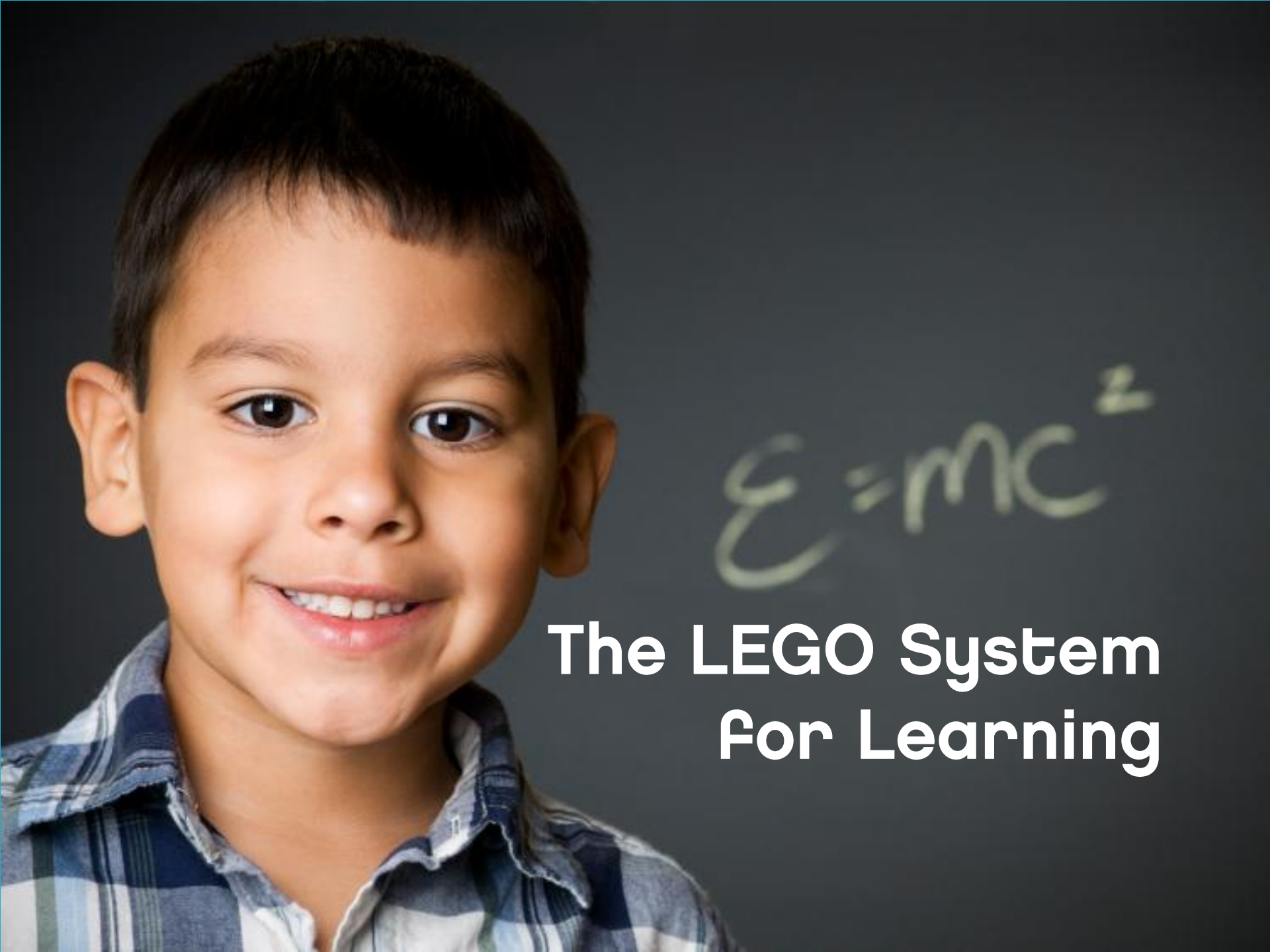
# and the sciences



**How do we juggle supporting  
creativity while also teaching  
vocabulary, math skills, scientific  
concepts, etc...**







$$E=mc^2$$

# The LEGO System For Learning



# Advocates of Active, Creative & Collaborative learning

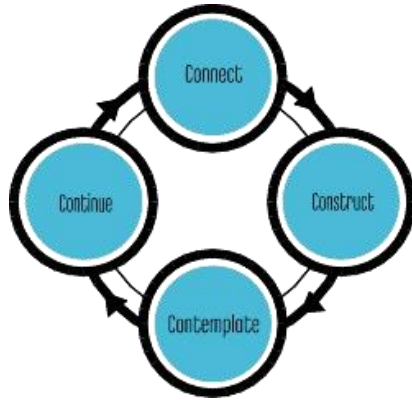


Building representations of ideas, problems, and knowledge with LEGO® bricks makes them concrete.

Students are giving their hands something to work with, and their brains something to remember.



# The LEGO System For Learning: 4Cs

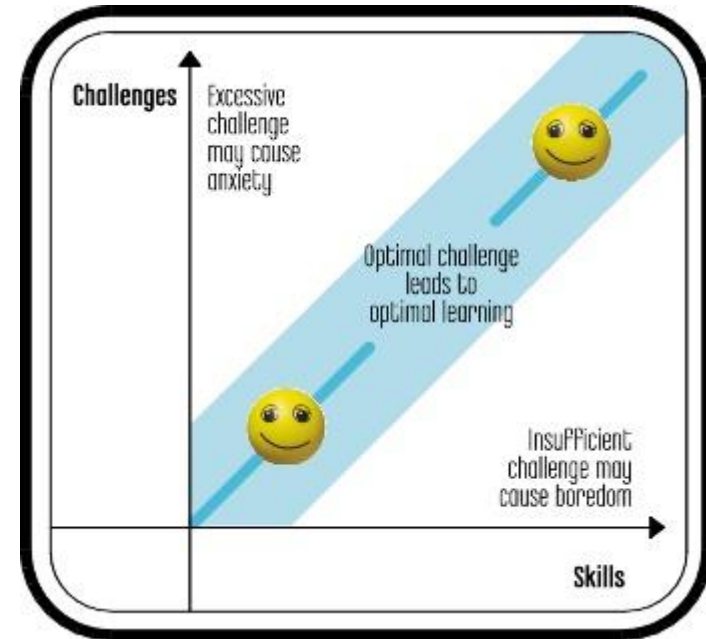




# Achieving “Flow”

HIGH CEILING

WIDE  
WALLS



LOW THRESHOLD

*Mihaly Csikszentmihalyi*

Your **HANDS** know a lot more than  
**YOU THINK** they know!



Your **HANDS** know  
Things that **YOUR MIND**  
doesn't know that it knows!



# From play and toys to playful learning tools



1980

1986



1998



2006

2009





**α LEGO Toy**



**α LEGO Tool**

# LEGO® Education

- Pre-K
  - Elementary
  - Middle and High
  - University
  - After School
  - Home School
- 
- LEGO Education Classroom Solutions
  - LEGO Education Academy, PD & Training
  - First LEGO League, Robotics & Engineering Contests (Jr.FLL, FLL, FTC)



# Platforms for Early Learning through High School





# Language arts and humanities

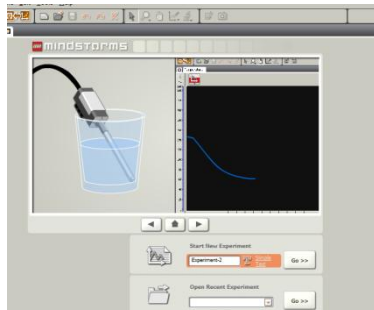
## Elementary and Middle School LEGO® SERIOUS PLAY™ For Education





# Science, Technology, Engineering & Maths

## Elementary to High School Robotics





**YES! – It's a school day**

**Visit**  
**[www.LEGOeducation.us](http://www.LEGOeducation.us)**